

Commercial Roller Shade Selection Guide



Introduction

Lutron offers the most advanced shading solutions for commercial spaces, with a large variety of product options and features. From individual, battery-powered roller shades to self-adjusting automated shading solutions, we offer the right system for any need.

Lutron is the industry leader in technological innovation, offering:

- smooth, quiet, precise, low-voltage drive technology
- hardware that allows flexible installation in a variety of architectural configurations
- a wide range of fabric options to ensure design intent is met, daylighting performance is optimized, and aesthetics are enhanced
- Hyperion™ solar adaptive shading — an automated shading system that adjusts shades throughout the day based on the position of the sun
- a fully integrated, total light management solution from a single manufacturer

Specify a Lutron roller shading solution in just four simple steps:

Step ①

Select the shade fabric – Consider the needs of the space when choosing a fabric. Depending on how a space is used, you may want to reduce glare, maximize daylight, preserve views or you may need to darken the area for AV presentations.

Step ②

Select the drive unit and top treatment – The drive unit and top treatment differ depending on the size of the window and the architecture of the building.

Step ③

Select the power supply – Choose from several options for powering a shade based on the number and placement of shades in the space.

Step ④

Select the controls – Shade controls range from personal wireless remote controls, to publicly accessible wall-mounted keypads, to a completely automated system.





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Select the shade fabric

1 Fabric

2 Drive

3 Power

4 Controls

Lutron offers roller shade fabrics in four categories for Performance shading solutions—Spec Grade Solar Screens, Sustainable Solar Screens, General Purpose, or Blackouts. Select the type that best meets the needs of your space.



Spec Grade Solar Screens

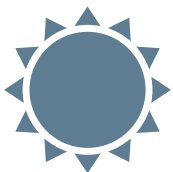
a selection of solar screen fabrics with tightly controlled fenestration properties and strict tolerance requirements

- ensures fabric performance meets your building design intent
- complies with the THEIA™ Performance Specification



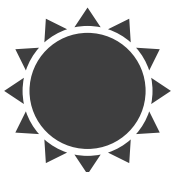
Sustainable Solar Screens

a selection of PVC free fabrics that have the combined benefits of traditional solar screens with environmentally friendly and sustainable properties



General Purpose Solar Screens

a selection of traditional and dual-sided solar screens to minimize glare while maximizing daylight and view, and enhancing productivity



Blackouts

a selection of dual-sided and standard opaque fabrics to block daylight

Fabric selection

Because daylight interacts with shade fabric in a number of ways, you should also consider solar performance metrics when choosing a fabric.

Openness factor (OF)

The percentage of direct light that is transmitted through the fabric (generally due to the tightness of the weave)

Visible Light Transmittance (Tv)

Percentage of visible light that passes through the fabric; lower values indicate greater glare reduction

Solar transmittance (T_s)

Percentage of solar radiation that passes through the fabric

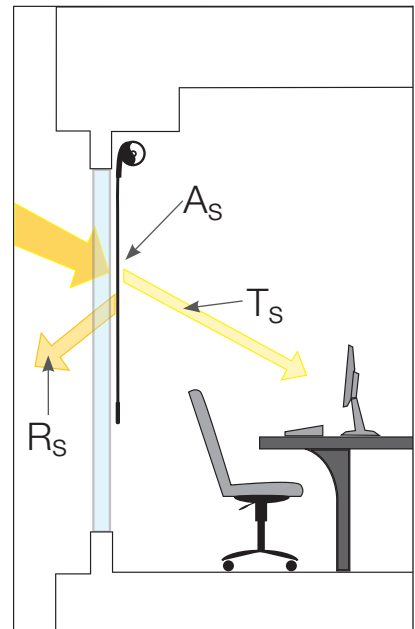
Solar absorptance (A_s)

Percentage of solar radiation absorbed by the fabric

Solar reflectance (R_s)

Percentage of solar radiation reflected back out by the fabric

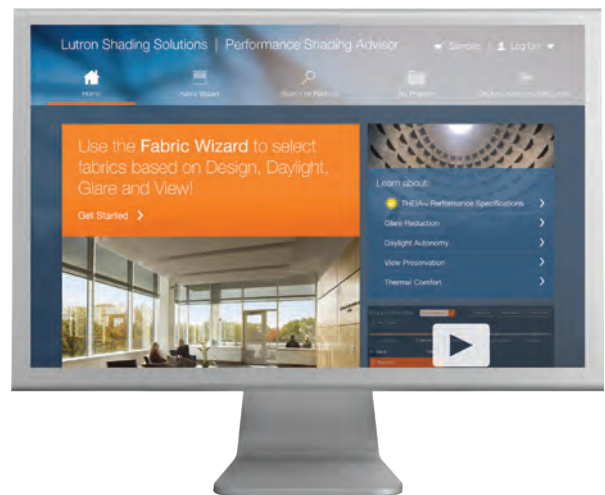
Solar metrics: For each fabric, $T_s + A_s + R_s = 100\%$



NEW! Performance Shading Advisor

Lutron's new web-based Performance Shading Advisor transforms the complicated task of choosing fabrics into a simple selection process. This innovative, commercially-focused tool gives architects and designers the ability to optimize the design of their shading system based on building performance and aesthetic preference. Reduce glare, maximize daylight, preserve view, and enhance your design at:

www.PerformanceShadingAdvisor.com.



For more information about fabric selection and choices visit www.lutron.com/fabrics.

Select the shade fabric

1 Fabric

2 Drive

3 Power

4 Controls

Performance Fabric Collection

	Shade Fabric	Openness Factors	Description
Spec Grade Solar Screens	● E Screen – THEIA™	See below*	A specification grade, 2x2 basketweave made from PVC coated fiberglass – available in ten different colors
	● E Screen with KOOLBLACK™ Technology – THEIA	See below*	A specification grade, 2x2 basketweave with higher solar reflectance values made from PVC coated fiberglass – available in five darker colors
	● M Screen – THEIA	See below*	A specification grade, 1x2 basketweave made from PVC coated fiberglass – available in nine different colors
	● T Screen with KOOLBLACK Technology – THEIA	See below*	A specification grade, dual-sided, twill weave made from PVC coated fiberglass with higher solar reflectance values – available in five darker colors
General Purpose Solar Screens	● Basketweave 90	1%, 3%, 5% (approximate**)	A 2x2 basketweave made from PVC coated fiberglass – available in nine different colors
	● Basketweave 90 Silver	1%, 3%, 5% (approximate**)	A 2x2 basketweave made from PVC coated fiberglass with a metalized backing and higher solar reflectance values – available in nine different colors
	● Basketweave 27	1%, 3%, 5% (approximate**)	A dual-sided, twill weave made from PVC coated fiberglass with higher solar reflectance values – available in five different colors
	● Sheerweave 4900	1%, 3% (approximate**)	A dual-sided, twill weave made from PVC coated fiberglass with higher solar reflectance values – available in thirteen different colors
	● SilverScreen (Basketweave Silver)	4% (approximate**)	A 1x2 basketweave made from PVC coated fiberglass with a metalized backing and higher solar reflectance values – available in ten different colors
	● SheerLite	3%, 5% (approximate**)	A 2x2 basketweave made from PVC coated polyester – available in six different colors

* THEIA compliant fabrics have unique openness factors based on actual fabric performance. Please reference the Lutron Performance Shading Advisor for precise fabric performance specifications and availability at www.PerformanceShadingAdvisor.com.

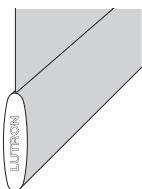
** Actual performance may vary by +/- 2% or more in openness factor. For performance-critical applications, use a fabric that meets the THEIA Performance Specification.

	Shade Fabric	Openness Factors	Description
Sustainable Solar Screens	<ul style="list-style-type: none"> GreenScreen® Evolve™ 	1%, 3%, 5% (approximate**)	A Cradle to Cradle Certified Silver warp knit fabric made from PVC free polyester woven from recycled content – available in nine different colors
	<ul style="list-style-type: none"> Basketweave Eco2 	3%, 5% (approximate**)	A 2x2 basketweave made from PVC free, recycled Thermoplastic Olefin – available in nine different colors
	<ul style="list-style-type: none"> Duotone 	6% (approximate**)	A dual-sided warp knit fabric made from PVC free polyester – available in four different colors
Blackouts	<ul style="list-style-type: none"> Value Premiere 	Blackout 0%	A dual-sided, PVC free polyester blackout fabric – available in eight different colors
	<ul style="list-style-type: none"> Avila 	Blackout 0%	A dual-sided, PVC free polyester blackout fabric – available in eight different neutral colors
	<ul style="list-style-type: none"> Standard 	Blackout 0%	An economical PVC coated fiberglass blackout fabric – available in six different colors

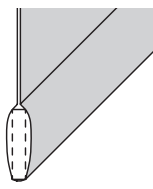


Please reference the Lutron Performance Shading Advisor and/or the Shade Configuration Tool (SCT) for up-to-date fabric performance specifications and availability at www.PerformanceShadingAdvisor.com.

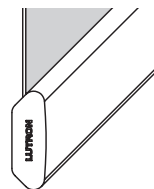
Hembar and accessories – Note: Fabric may not be compatible with all hembar options



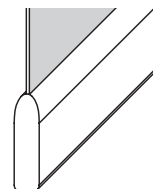
Designer hembar



Sealed hembar



Architectural hembar



Exposed hembar

Select the drive unit and top treatment



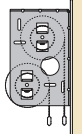




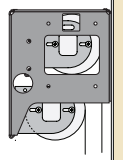
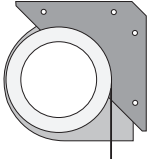

1 Fabric

2 Drive

3 Power

4 Controls

Electronic drive unit selection

	Tube size	Typical maximum window size	Bracket options
roller 64™	 1.625 in. (41 mm)	8 ft. x 8 ft. (or up to 64 sq. ft.)	 Universal  Dual
roller 100™ roller 150™ roller 300™	 2.5 in. (64 mm)	10 ft. x 10 ft. (R100) to 12 ft. x 16 ft. (R150) or up to 300 sq. ft. (R300)	 Wall  Ceiling  Jamb  Dual
roller 225™	 3.75 in. (95 mm)	15 ft. x 15 ft. (or up to 225 sq. ft.)	 Jamb

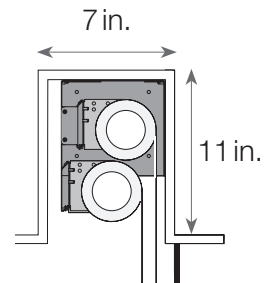
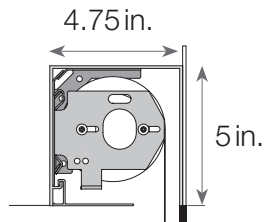
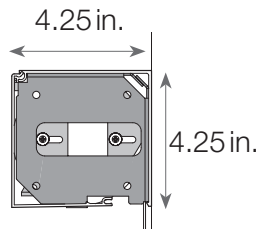
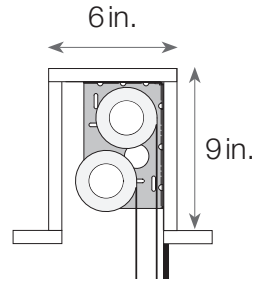
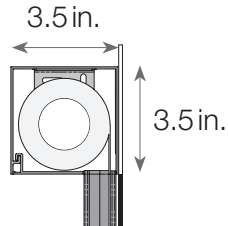
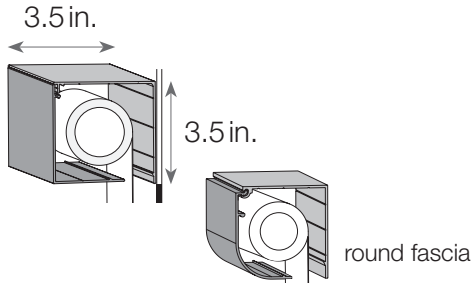
Product specification drawings are available for download on www.lutron.com/CAD.

Top treatment options

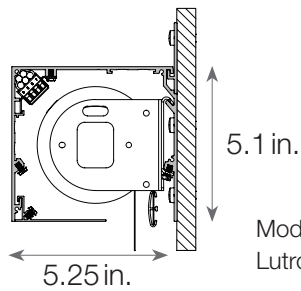
Fascia and top back cover†
(round and square fascia)

Pocket

Dual pocket

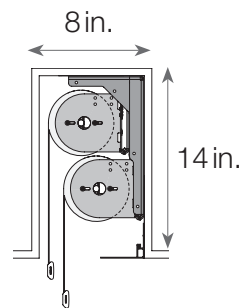
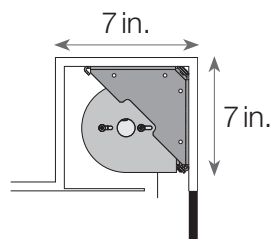


Lutron Compatible Shade Pocket by Armstrong®



Model number AXP355L (3-Sided Lutron Perimeter Pocket) shown.

N/A



Private Office
Conference Room
Open Office

†  (available in bronze, silver, black, white, and custom)

Select the power supply

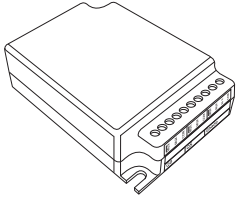
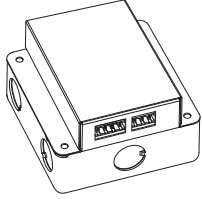
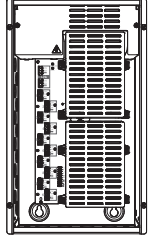
1 Fabric

2 Drive

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Power options for roller shades

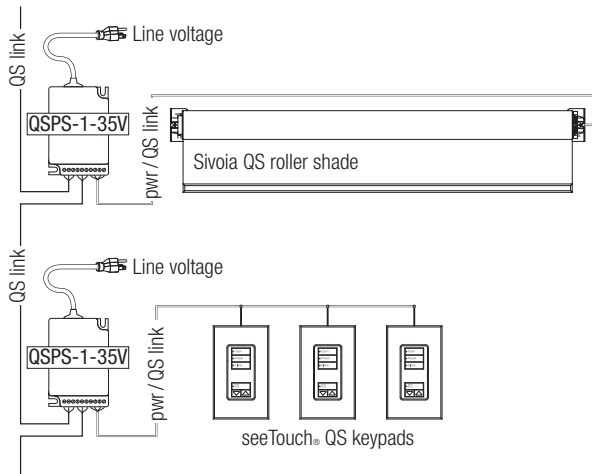
All 120V	Plug-in	J-box	Panel*
			
Sivoia® QS	●	●	●
Sivoia QS Wireless	●	●	●
Powers number of shades	1+1 keypad	1+1 keypad	10 + up to 10 keypads
Peak current consumption	1.2A	1.2A	10A per panel
Dimensions	Width: 2.75 in. (70 mm) Length: 4 in. (102 mm) Depth: 1.2 in. (31 mm)	Width: 4.10 in. (104 mm) Length: 4.3 in. (109 mm) Depth: 1.40 in. (36 mm)	Width: 10.4 in. (264 mm) Length: 17.5 in. (445 mm) Depth: 4.2 in. (106 mm)
Wiring distance 12 AWG	250 ft.	250 ft.	500 ft.
16 AWG	100 ft.	100 ft.	200 ft.
18 AWG	50 ft.	50 ft.	125 ft.

● = Available

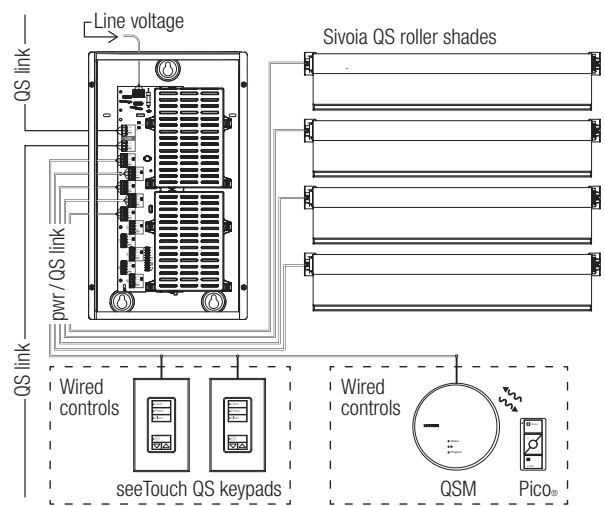
* Panel shown is QS Smart Panel (QSPS-10PNL)
Maximum of one panel per 15A circuit, two panels per 20A circuit.

Wiring diagrams

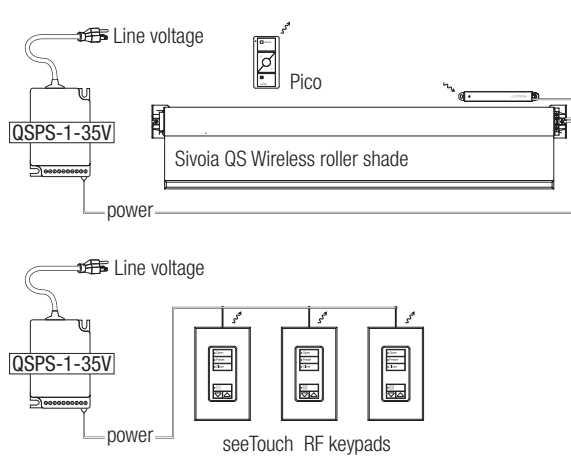
Sivoia® QS **Individual Power Supply QSPS-1-35V**



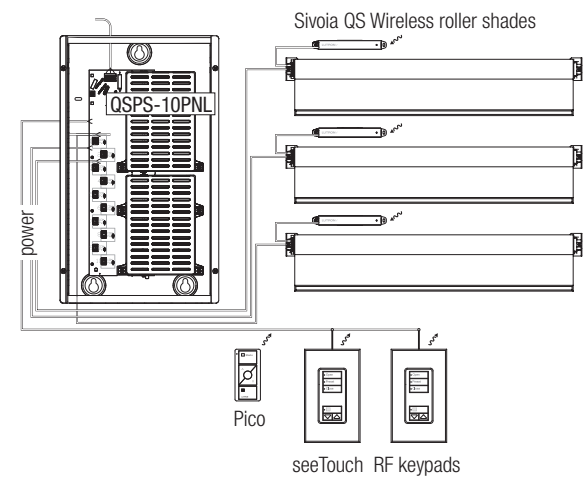
Sivoia QS **Smart Panel QSPS-10PNL**



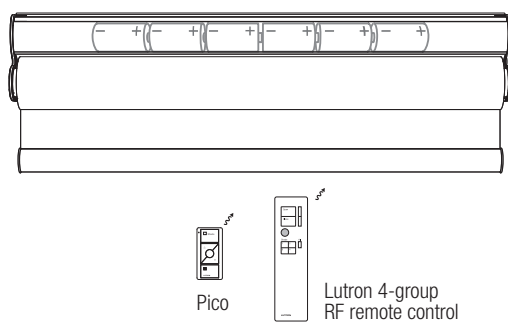
Sivoia QS **Individual Power Supply QSPS-1-35V**



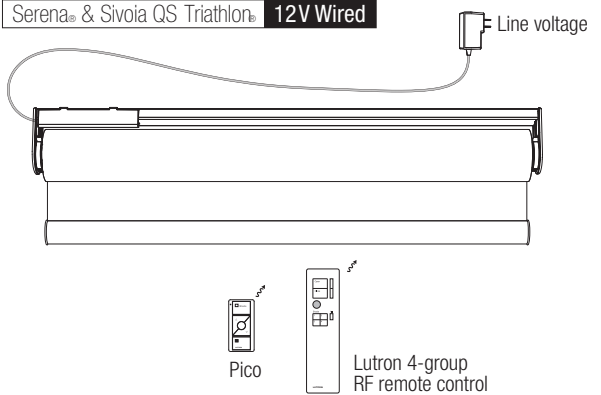
Sivoia QS **Smart Panel QSPSY-10PNL**



Serena® & Sivoia QS Triathlon® **Battery Power**



Serena® & Sivoia QS Triathlon® **12V Wired**



† For more information, refer to the QS Link Power Draw Unit Specification Submittal (P/N 369405)

Select the controls

1 Fabric

2 Drive

3 Power

4 Controls

Control options for roller shades

Lutron offers control options to complement our roller shading solutions or for integrated control of Lutron lighting and shade solutions.

Pico® Wireless Control



Versatile, easy-to-use wireless controls offer hand-held, wall-mount, or tabletop options for control from anywhere in your space, at the touch of a button. Pico wireless controls program and reprogram in seconds to set or adjust shade presets.

GRAFIK Eye® QS



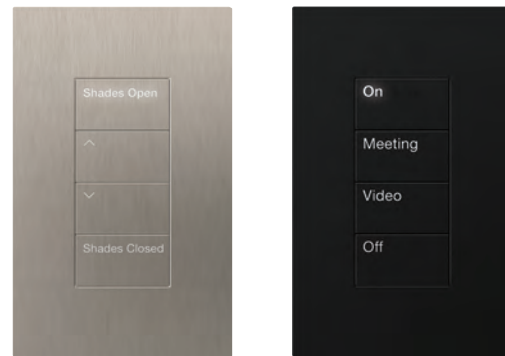
Customizable control system allows you to set timeclock events or preprogrammed scenes for common room tasks. You can also easily adjust shades and lights to improve comfort and enhance room performance.

seeTouch® keypads



Featuring large, easy-to-use buttons and backlighting for readability, seeTouch keypads are available in a wide variety of button configurations, colors and finishes for integrated scene control of your entire lighting and shading system.

Palladium™ keypads



Elegant controls offer buttons and faceplates that are flush to each other and are made of one consistent material to create a clean, minimalist look, architectural aesthetic and intuitive operation. Offered in many colors and finishes including metal and glass, controls are available for lights and shades.

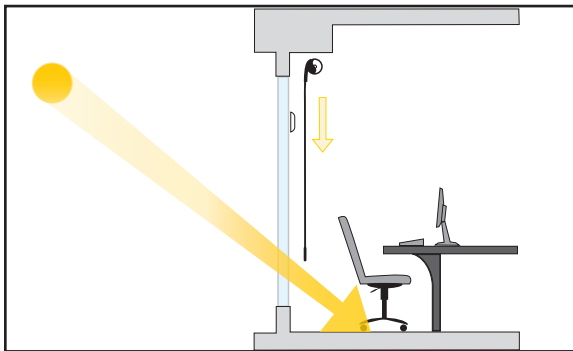
Note: Lutron has options for integration with third-party controls. Please contact Lutron for all control and system capabilities.

Hyperion™ Solar Adaptive Shading

A key feature of Lutron's Quantum Total Light Management™ system, Hyperion automatically adjusts Sivoia® QS shades* throughout the day according to the position of the sun. This provides effective daylighting to reduce glare and heat gain throughout the day, and maximize comfort and productivity.

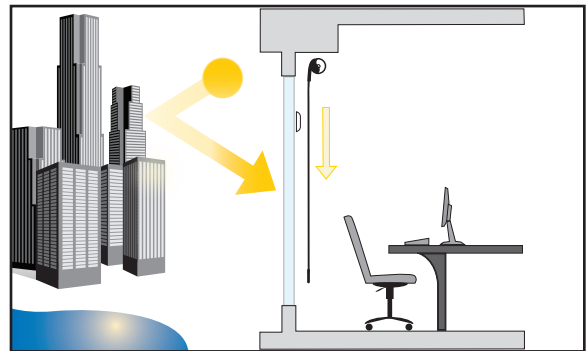
Customized shade adjustment schedules are developed by combining information about the building such as location and facade orientation.

Direct Sun: Shades lower to keep the sun's rays from penetrating your work area



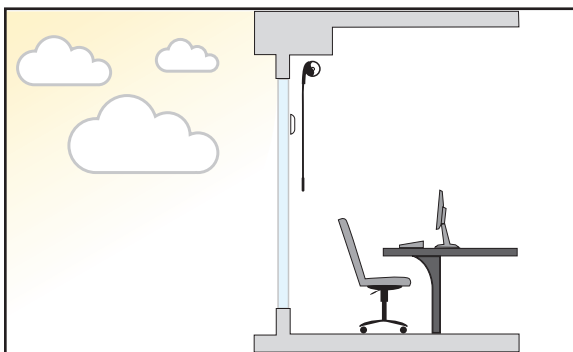
Shades lower to block direct sun

Reflected Sun: Shades close to block reflections from large surfaces



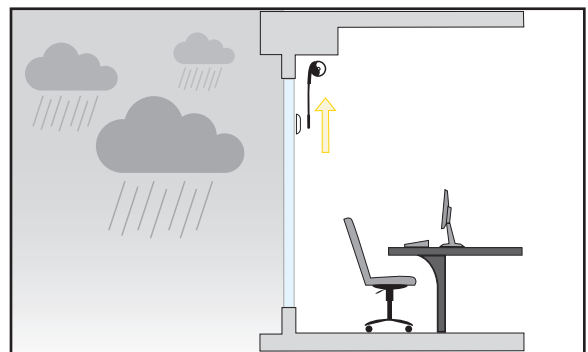
Shades close to block reflected glare

Bright Sky: Shades move to a predetermined position to minimize the contrast from the bright sky



Shades lower to reduce sky contrast

Overcast/Dark: Shades open to maximize views and available daylight when overcast or when in a shadow



Shades open to maximize view

* Only Sivoia QS wired roller shades work with Hyperion solar adaptive technology



Radio Window Sensor is a new addition to the Quantum® Total Light Management™ system. Working in conjunction with Hyperion solar-adaptive technology, this sensor maximizes views and available daylight by overriding Hyperion and keeping shades open when there are cloudy conditions or shadows from neighboring buildings, and closing shades in overly bright conditions.

Experience Center locations

Lutron experience centers showcase the company's broad offering of lighting controls and shading solutions. Schedule a tour today to show your customers how Lutron solutions can enhance any space and save energy.



Washington D.C.

455 Massachusetts Avenue, NW, Suite 770
Washington, D.C. 20001

Contact: dcexperience@lutron.com | 202.624.5700



New York, New York

1 Penn Plaza, Suite 1714
New York, NY 10119

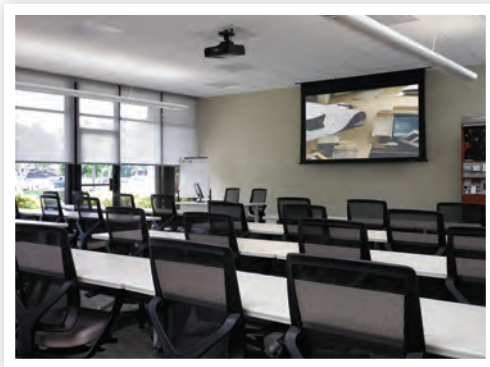
Contact: nycspec@lutron.com | 212.989.1300



Coopersburg, Pennsylvania

7200 Suter Road
Coopersburg, PA 18036

Contact: paexperience@lutron.com | 610.282.6280



Irvine, California

2458 Dupont Drive

Irvine, CA 92612

Contact: caexperience@lutron.com | 949.474.4140



Plantation, Florida

101 NW 100th Avenue

Plantation, FL 33324

Contact: flexperience@lutron.com | 954.577.6294



Toronto, Canada

600 Cochrane Drive, Suite 105

Markham, Ontario L3R 5K3

Contact: torexperience@lutron.com | 905.754.3300

Additional shades resources



Performance Shading Brochure

P/N 367-2502
Overview of Lutron's new Performance Shading Advisor and fabric collection. Details the importance of fabric selection for reducing glare, maximizing daylight, and preserving view.



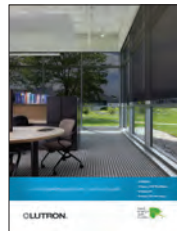
Daylight Autonomy Brochure

P/N 367-2464
Daylight autonomy is a new term for an ancient practice. This brochure details Lutron's Daylight Autonomy solution and energy savings information.



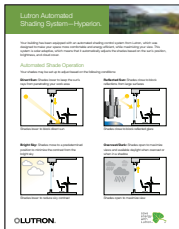
Commercial Shading Solutions Brochure

P/N 367-2346
Overview of Lutron's commercial shades message and introduction to Daylight Autonomy, automated shade benefits, components, and styles.



Shading Solutions Product Guide

P/N 367-1455
Specifier's complete resource for Lutron shading systems.



Hyperion™ End User Sheet

P/N 367-2538
A customer's guide to basic Hyperion functionality, manual override options, and FAQs.



Radio Window Sensor Sell Sheet

P/N 367-2378
Introduction to Lutron's Radio Window Sensor, how it works, and sensor grouping options.

www.PerformanceShadingAdvisor.com

Shades Customer Service: commercialcsshades@lutron.com

Lutron Electronics Co., Inc., 7200 Suter Road, Coopersburg, PA 18036-1299

Customer Assistance

Online: lutron.com/help

Email: support@lutron.com

Phone: 1.844.LUTRON1 (588.7661) — includes 24/7 technical support

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